

ABSTRACT

FLUORO-CHEMICAL COMPOSITION COMPRISING A FLUORO-CHEMICAL OLIGOMERIC SILANE FOR RENDERING SUBSTRATES OIL AND WATER REPELLENT

A fluorochemical composition comprising a major amount of organic solvent and 0.05% by weight to 5% by weight of fluorochemical oligomer dispersed or dissolved in said organic solvent and said fluorochemical oligomer being represented by the general formula:

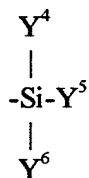


wherein X represents the residue of an initiator or hydrogen;

M^f represents units derived from fluorinated monomers;

M^h represents units derived from a non-fluorinated monomers;

M^a represents units having a silyl group represented by the formula:



wherein each of Y^4 , Y^5 and Y^6 independently represents an alkyl group, an aryl group or a hydrolyzable group;

G is a monovalent organic group comprising the residue of a chain transfer agent;

n represents a value of 1 to 100;

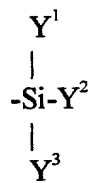
m represents a value of 0 to 100;

r represents a value of 0 to 100;

and $n+m+r$ is at least 2;

with the proviso that at least one of the following conditions is fulfilled: (a) G is a

monovalent organic group that contains a silyl group of the formula:



wherein Y^1 , Y^2 and Y^3 each independently represents an alkyl group, an aryl group or a hydrolyzable group with at least one of Y^1 , Y^2 and Y^3 representing a hydrolyzable group; or (b) r is at least 1 and at least one of Y^4 , Y^5 and Y^6 represents a hydrolyzable group.